FIG.1

102 RECEPTION WIRELESS PROCESSING SECTION

103 GI REMOVING SECTIONS

104 FFT SECTION

5   105 CONTROL INFORMATION EXTRACTION SECTION

106 DEMODULATING SECTION

107 DECODING SECTION

126 TRANSMISSION WIRELESS PROCESSING SECTION

108 USER DATA EXTRACTION SECTION

10   109 DEMODULATING SECTION

110 RECEPTION HARQ SECTION

111 DECODING SECTION

125 GI INSERTION SECTION

112 PILOT SIGNAL EXTRACTION SECTION

15   113-1~113-N RECEPTION QUALITY MEASURING SECTIONS

127 SC SELECTING SECTION

124 IFFT SECTION

123 S/P CONVERTER

122 MULTIPLEXER

20   116 MODULATING SECTION

115 ENCODING SECTION

114 CQI GENERATING SECTION

118 MODULATING SECTION

117 ENCODING SECTION

25   121 MODULATING SECTION

120 ENCODING SECTION

119 ACK/NACK GENERATING SECTION

CONTROL INFORMATION

USER DATA

FIG.2

5   202 RECEPTION WIRELESS PROCESSING SECTION

203 GI REMOVAL SECTION

204 FFT SECTION

205 CONTROL INFORMATION EXTRACTION SECTION 205

206 DEMODULATING SECTION

10   207 DECODING SECTION

208 CONTROL SECTION

209 ENCODING SECTION

210 TRANSMITTED SIGNAL HARQ SECTION

211 MODULATING SECTION

15   212 ENCODING SECTION

213 MODULATING SECTION

214 MULTIPLEXER

215 SUB-CARRIER ALLOCATION SECTION

216 S/P CONVERTER

20   217 IFFT SECTION

218 GI INSERTION SECTION

219 TRANSMISSION WIRELESS PROCESSING SECTION

220 CONTROL DATA TRANSMISSION PROCESSING SECTION

CQI QUANTITY INFORMATION

25   CONTROL DATA

TRANSMISSION DATA

FIG.3

FREQUENCY

FIG.4

5   6 BITS, 5 BITS, 1 BIT

SC NUMBER INFORMATION 11, CQI FOR SC NUMBER INFORMATION

11 . . . . .

CONTROL INFORMATION

10 FIG.5

1 BIT, 11 BITS . . .

CQI FOR SC NUMBER 11, . . .

BIT 1, BIT 10, BIT 21 . . .

CONTROL INFORMATION

15

FIG.6 (FIG.1 参照)

601 THRESHOLD VALUE DETERMINING CIRCUIT

FIG. 7 (FIG.1 参照)

20 701 THRESHOLD VALUE DETERMINING SECTION

702 USED SUB-CARRIER SELECTING SECTION

703 SPREADING SECTION

FIG. 8 (FIG.2 参照)

25 801 DE-SPREADING SECTION

802 SUB-CARRIER DETERMINING SECTION

FIG.9

5 BITS, 1 BIT

CQI FOR SC(b)

ACK/NACK SIGNAL

5　CONTROL INFORMATION

FIG.10 (FIG.1参照)

FIG.11 (FIG.2参照)

10　FIG.12 (FIG.4参照)

FIG.13

64 BITS, 1 BIT

1 BIT, 2 BITS, . . .

CONTROL INFORMATION

15

FIG.14 (FIG.1参照)

1401 THRESHOLD VALUE DETERMINING SECTION

1402 CQI SPREADING CODE GENERATING SECTION

1403 USED SUB-CARRIER SELECTING SECTION

20　1404 SPREADING SECTION

FIG.15 (FIG.2参照)

1501 DE-SPREADING SECTION

1502 DETERMINING SECTION